

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 62-057392 (71) Applicant : HITACHI MAXELL LTD

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(54) MAGNETIC RECORDING MEDIUM

(57) Abstract:

PURPOSE: To form a magnetic recording medium having high recording density and superior magnetic characteristic by segregating and depositing a nonmagnetic metal having a low m.p. of $\leq 650^{\circ}$ C on the peripheral surfaces of acicular grains of a ferromagnetic body.
CONSTITUTION: Acicular grains 2 of CoCr as a ferromagnetic body are grown on a PET film 1 as a nonmagnetic base body with a vacuum depositing device, and at least one kind of nonmagnetic metal 3 having a low m.p. of $\leq 650^{\circ}$ C such as Bi, Pb, Sb, Zn or In is segregated and deposited on the peripheral surfaces of the grains 2. Since the acicular grains 2 of CoCr are magnetically insulated, each of the grains exhibits the behavior of grains having a single magnetic domain, recording density is increased and superior magnetic characteristics can be provided. The warping, thermal deterioration and cracking of the base body 1 can be prevented because of $\leq 650^{\circ}$ C m.p. of the metal 3.

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